Comparative Biomedical Science (PhD): Infection and Immunity Concentration

Plan Requirements

Code	Title	Hours
Core Courses		**10**
CBS 565	Fundamentals of Biomedical Sciences	
CBS 662	Professional Conduct in Biomedical Research	
CBS 800	CBS Seminar (3 credit hours required)	
ST 511	Statistical Methods For Researchers I	
Concentration Requirements		**8**
CBS 707	Fundamentals of Infectious Disease	
CBS 816	Advanced Topics In Immunology (2 credit hours required)	
IMM/MB 751	Immunology	
Seminar Course		**2**
CBS 811	Seminar in Infectious Disease (2 credit hours required)	
Additional courses/Research Credits		**46**
Elective Courses		**6**
Elective courses are selected by the student and degree advisor/mentor and must be approved by the student's graduate advisory committee. Possible elective courses include, but are not limited to, the following:		
BCH 553	Biochemistry of Gene Expression	
BCH 555	Proteins and Molecular Mechanisms	
BCH 701	Macromolecular Structure	
BCH 703	Macromolecular Synthesis and Regulation	
BCH 705	Molecular Biology Of the Cell	
BIT 510	Core Technologies in Molecular and Cellular Biology	
BIT 564	Protein Purification	
BIT 565	Real-time PCR Techniques	
BIT 566	Animal Cell Culture Techniques	
CBS 561	Principles of Collaboration and Team Science	
CBS 563	Leadership in Interdisciplinary Biomedical Sciences	
CBS 586	One Health: From Philosophy to Practice	
CBS 660	Fundamentals of Comparative Molecular Medicine	
CBS 770	Cell Biology	
CBS 764	Advances in Gastrointestinal Pathophysiology	
CBS 775	Designing population-based research	
CBS 806	Animal Models in Comparative and Translational Research	
CBS 810	Special Topics (Introduction to Grant Writing)	
CBS 886	Interdisciplinary Research Team Mentoring	
GN 701	Molecular Genetics	
GN 702	Cellular and Developmental Genetics	
GN 735	Functional Genomics	
GN/ST 756	Computational Molecular Evolution	
GN/MB 758	Microbial Genetics & Genomics	
GN/PB/BCH 761	Advanced Molecular Biology Of the Cell	
GN/BCH 768	Nucleic Acids: Structure and Function	
GN 810	Special Topics in Genetics	
IMM/PO 757	Comparative Immunology	
MB 535	Bacterial Pathogenesis	
MB 714	Microbial Metabolic Regulation	
MB 718	Introductory Virology	
ST 501	Fundamentals of Statistical Inference I	
ST 512	Statistical Methods For Researchers II	
ST 701	Statistical Theory I	
TOX 501	Principles of Toxicology	
Total Hours		**72**

Faculty

Full Professors

Kenneth B. Adler

Glen William Almond

Kevin L. Anderson

Christopher M. Ashwell

Michele Battle

Ronald E. Baynes

Adam Joseph Birkenheuer

Anthony T. Blikslager

James C. Bonner

Russell J. Borski

Matthew Breen

Edward Bealmear Breitschwerdt

Ke Cheng

Maria T Correa

Paula J Cray

Rocio Crespo

Frederick J. Fuller

John E. Gadsby

Troy Ghashghaei

Isabel M. Gimeno

John R. Godwin

Jody L. Gookin

Bruce Hammerberg

Jan Hawkins

Lee-Ann Jaykus

Samuel L. Jones

Matthew D. Koci

Seth William Kullman

Duncan X. Lascelles

Scott M. Laster

Jerry M. Law

Keith E. Linder

Carolyn Jane Mattingly

Kathryn Montgome Meurs

Paul Edward Mozdziak

Natasha J. Olby

Mark G. Papich

Heather Patisaul

Jorge A. Piedrahita

Emilie Francesca Rissman

Yogesh Saini

Kaori Sakamoto

Philip L. Sannes

Gabriela Seiler

Barbara Sherry

Robert Charles Smart

Geoffrey W. Smith

Joshua Stern

Michael K. Stoskopf

Siddhartha Thakur

Jun Tsuji

Jeffrey A. Yoder

Associate Professors

Erica L. Behling-Kelly

Petra Bizikova

Luke B. Borst

Nicolas Emile Buchler

Jeffrey Eells

Jonathan E. Fogle

Derek M. Foster

Shobhan Gaddameedhi

Michala de Linde Henriksen

Paul R. Hess

Megan E. Jacob

Cristina Lanzas

Ronald H Li

Sara K. Lyle

John Edward Meitzen

Nanette M. Nascone-Yoder

Michael Warren Nolan

Monique Danielle Pairis-Garcia

Xinxia Peng

Antonio Planchart

Marcelo Rodriguez-Puebla

Michael Sano

Lauren V. Schnabel

Michael L. Sikes

Barrett D Slenning

Susan T. Tonkonogy

Gregory Wilkerson

Assistant Professors

Belinda Sena Akpa

Abigail Armwood

Christa Baker

Tal Ben-Horin

Eric Robert Brooks

Yevgeny Brudno

Benjamin John Callahan

Elisa Crisci

Glenn Paul Cruse

Christopher Matthew Dekaney

Natalia Duque-Wilckens

Joshua R Fletcher

Lisa Gamsjaeger

Liara M. Gonzalez

Margaret Elizabeth Gruen

Christopher Daniel Guilluy

Jennifer Lauren Halleran

Ina Marie Luise Herrmann

Tobias Ernst Kaeser

Albert Jun Qi Keung

Manuel Kleiner

Raveendra Rangarao Kulkarni

Yen-Hao Lai

Caroline Laplante

Jennine M. Lection

Elizabeth Lucas

Jennifer Ann Luff

Gustavo Machado

Kurt Marsden

Neil McCarthy

Kelly Ann Meiklejohn

Kristen Michele Messenger

Santosh Kumar Mishra

Hiroyuko Mochizuki

Annie Oh

Karen Min-Jee Park

Kursten Veronica Pierce

Michael Rahe

Sarah Kathleen Rhea

Breanna Jo Sheahan

Mary Katherine Sheats

Sarah Elizabeth Shelton

Thiago Vilar Silva

Panchan Sitthicharoenchai

Eduardo Javier Lopez Soto

Casey Michelle Theriot

Laurianne Chantal Van Landeghem

Ian A. Williamson

Jose Augusto Len Yin

Kelley Varner

Jian Zhang

Practice/Research/Teaching Professors

Alix Berglund

Phuong-Uyen Cao Dinh

Ke Huang

Ricardo G. Maggi

Caroline McKinney

Thierry Jean Marie Olivry

Erin Frey Pearson

Teaching Assistant Professors

Emily Martin

Kristen Sullivan

Adjunct Faculty

Hannah Atkins

Jennifer Lynn Davis

Majid Douraki

Janice A. Dye

Johanna Rebecca Elfenbein

Sarah O'Flaherty

Holly Roessner

Elizabeth Caitlin Rose

Alexander Tran

Emeritus Faculty

Harold J. Barnes

Talmage T. Brown Jr.

John Michael Cullen

Lloyd Norman Fleisher

Oscar J. Fletcher Jr.

Sarah Y. Gardner

Marlene L. Hauck

Cynthia L. Hemenway

Suzanne Kennedy-Stoskopf

Michael Green Levy

David H. Ley

Nancy A. Monteiro-Riviere

William M. Morrow

Paul E. Orndorff

W. Rich Redding

Jim E. Riviere

Malcolm C. Roberts

Barbara Lynn Sherman

Clifford Richard Swanson

Donald E. Thrall